

CLAIMS

1. A line driver for driving a line having a state including:
a first current device configured to initiate a change in the state of the line and
a second current device configured to substantially complete the change;
5 wherein the first current device provides a first current and the second current
device provides a second current that is smaller than the first current.
2. A line driver for driving a line having a state as recited in claim 1 wherein the first
and second current devices are current sources.
3. A line driver for driving a line having a state as recited in claim 1 wherein the first
10 and second current devices are current sinks.
4. A line driver for driving a line having a state as recited in claim 1 wherein the first
current device includes a transistor sized to provide the first current.
5. A line driver for driving a line having a state as recited in claim 1 wherein the first
current device includes a first transistor sized to provide the first current and wherein the
15 second current device includes a second transistor sized smaller than the first transistor to
provide the second current that is smaller than the first current.
6. A line driver for driving a line having a state as recited in claim 1 further
including a switching device configured to limit the first current as the state of the line is
changing.
- 20 7. A line driver for driving a line having a state as recited in claim 1 further
including a switching device configured to limit the first current as the state of the line is
changing wherein the switching device includes a diode-configured transistor.

8. A line driver for driving a line having a state as recited in claim 1 further including a switching device configured to limit the first current as the state of the line is changing wherein the switching device includes a resistor configured to limit the first current.

5 9. A line driver for driving a line having a state as recited in claim 1 wherein the first current device includes a plurality of current devices.

10. A line driver for driving a line having a state as recited in claim 1 wherein the first current device includes a plurality of current devices wherein each of the plurality of current devices have peak responses that are time shifted with respect to each other.

10 11. A line driver for driving a line having a state as recited in claim 1 wherein the first current device includes a plurality of current devices wherein each of the plurality of current devices is coupled in parallel by a resistor so as to have peak responses that are time shifted with respect to each other.

12. A method of driving a line having a state including:

15 initiating a change in the state of the line using a first current device;

substantially completing the change using a second current device;

wherein the first current device provides a first current and the second current device provides a second current that is smaller than the first current.

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